

# ORIGINATION FORM

Proposed Revisions to a Standard Plans Index  
(Please provide all information – Incomplete forms will be returned)

## Contact Information:

Date: September 10, 2011  
Originator: Cheryl Hudson  
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## Standard Plans:

Index Number: 515-052  
Sheet Number (s):  
Index Title: Pedestrian/Bicycle Railing (Steel)

## Summary of the changes:

Changed Anchor depth for Case I and IIb

## Commentary / Background:

Anchor embedment is reduced following completion of research testing (BDV28).

## Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes                      | No                                  |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans –                  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual –                    |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual –             |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – Cheryl Hudson |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List –                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction –                          |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance –                           |

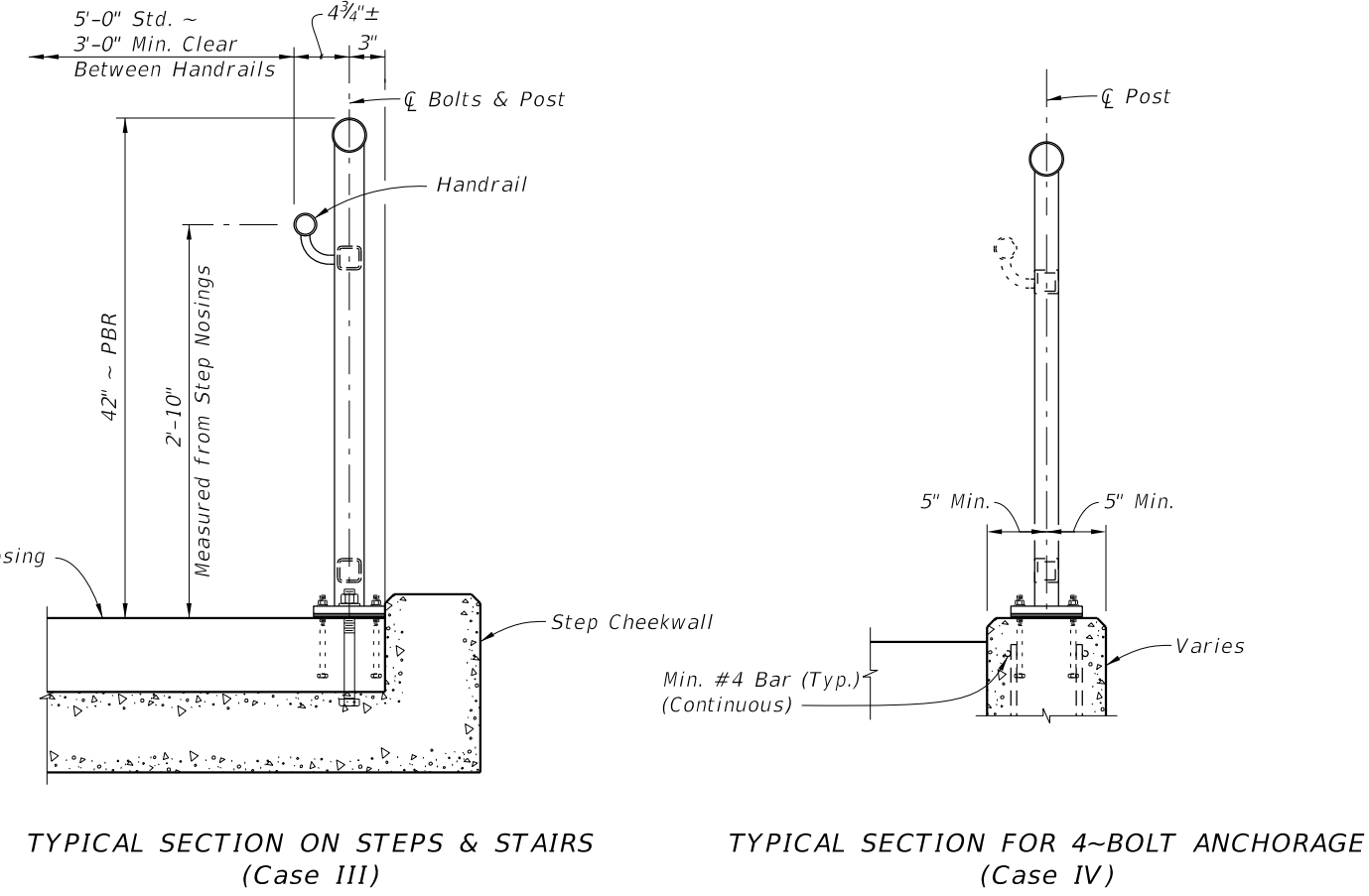
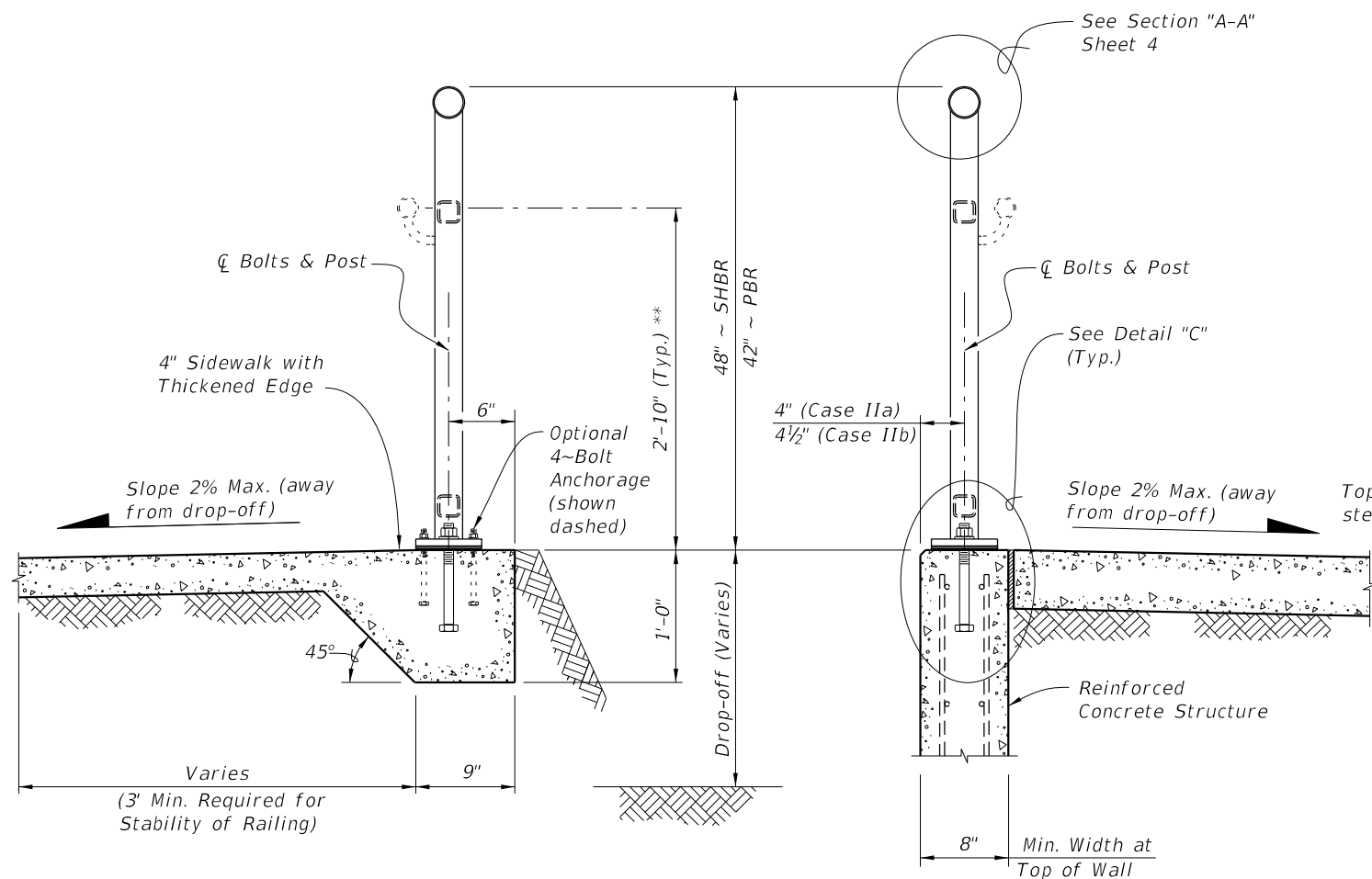
## Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes                      | N/A                                 |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Redline Mark-ups                          |
| <input type="checkbox"/> | <input type="checkbox"/>            | Proposed Standard Plan Instructions (SPI) |
| <input type="checkbox"/> | <input type="checkbox"/>            | Revised SPI                               |
| <input type="checkbox"/> | <input type="checkbox"/>            | Other Support Documents                   |

## Implementation:

- Design Bulletin (Interim)    DCE Memo    Program Mgmt. Bulletin    FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

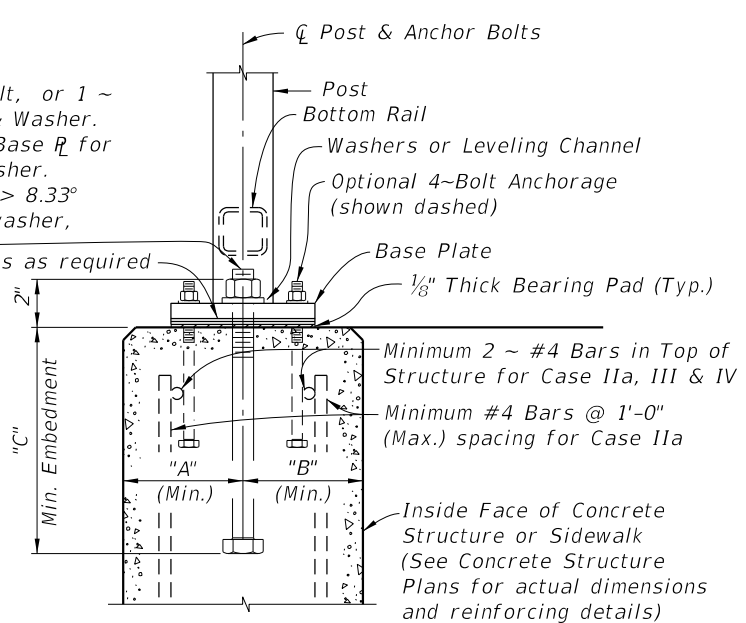
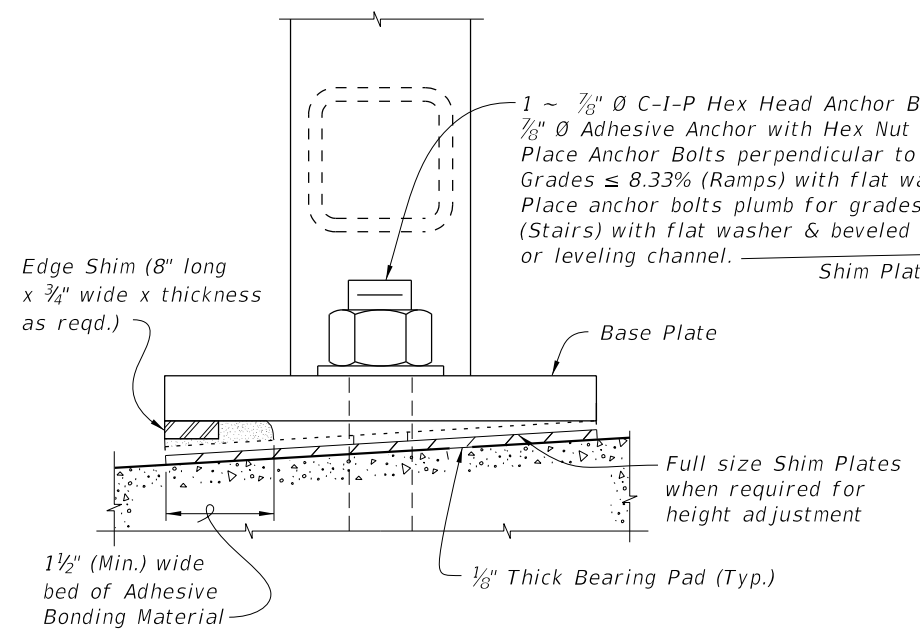


TYPICAL SECTION ON CONCRETE SIDEWALK (Case I)

TYPICAL SECTION ON RETAINING WALL (Case II)

TYPICAL SECTION ON STEPS & STAIRS (Case III)

TYPICAL SECTION FOR 4-BOLT ANCHORAGE (Case IV)

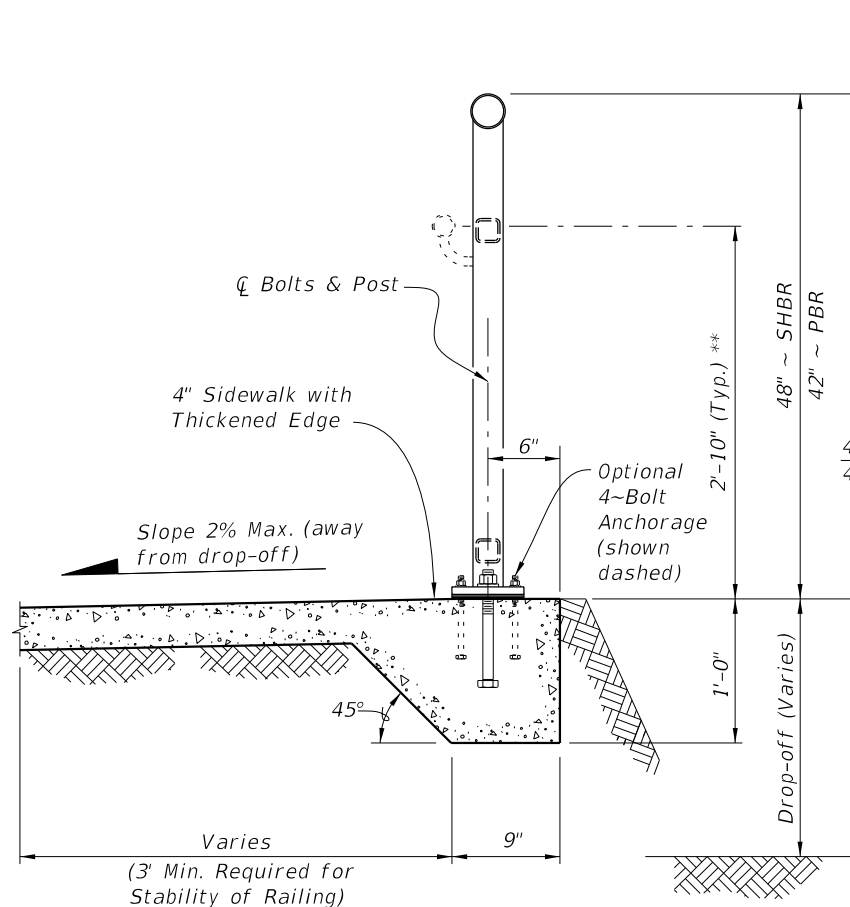


CASE	STRUCTURE TYPE	DIMENSIONS			ANCHOR LENGTH		ANCHOR SIZE
		A	B	C	C-I-P Hex Head Bolt	Adhesive Anchor	
		Edge Dist.	Edge Dist.	Embedment			
I	Unreinforced Concrete	6"	1'-2"	6" <del>9"</del>	10 1/2"	11"	7/8" Ø
IIa	Reinforced Concrete	4"	4"	9"	10 1/2"	11"	7/8" Ø
IIb	Gravity Wall Index 400-011	4 1/2"	3 1/2" @ top	9" <del>1'-0"</del>	1'-1 1/2"	1'-2"	7/8" Ø
III	Step Cheekwall	4 1/2"	4 1/2"	9"	10 1/2"	11"	7/8" Ø
IV	Varies	5"	5"	5"	6 1/2"	7"	7/16" Ø

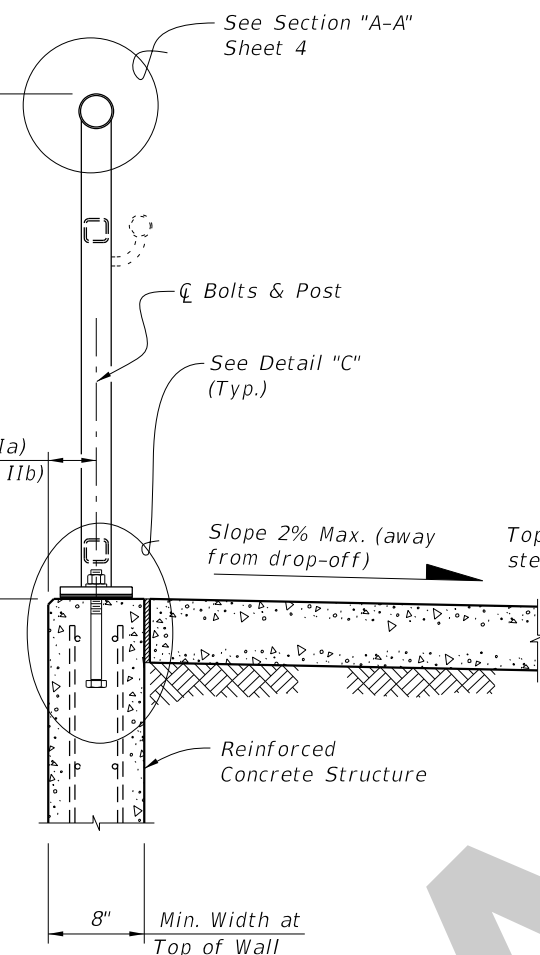
\* Embedment length "C" may be reduced to 9" for the 42" height railings for Case IIb, when the post spacing does not exceed 5'-0".

\*\* When required; measured from top of sidewalk.

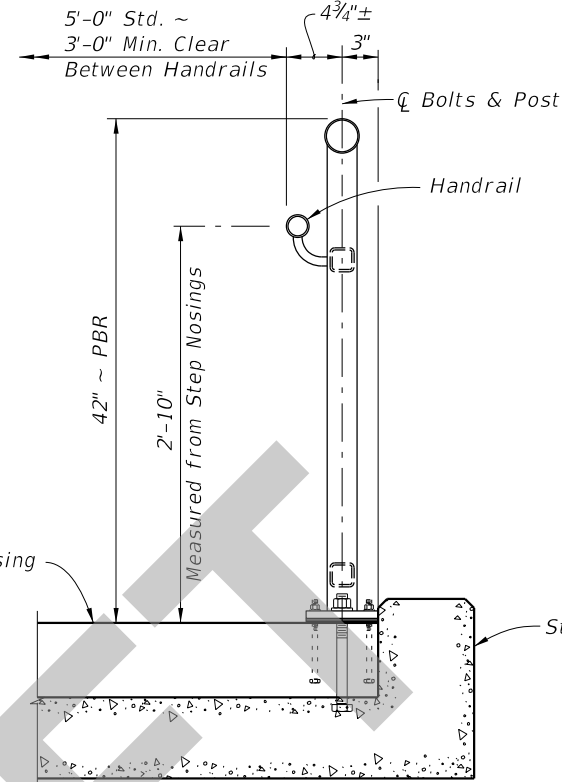
10/29/2018 9:29:10 AM



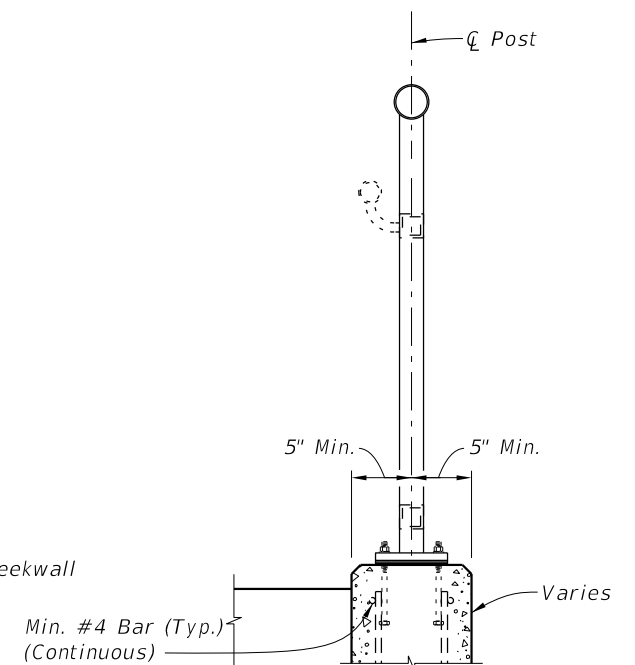
TYPICAL SECTION ON CONCRETE SIDEWALK (Case I)



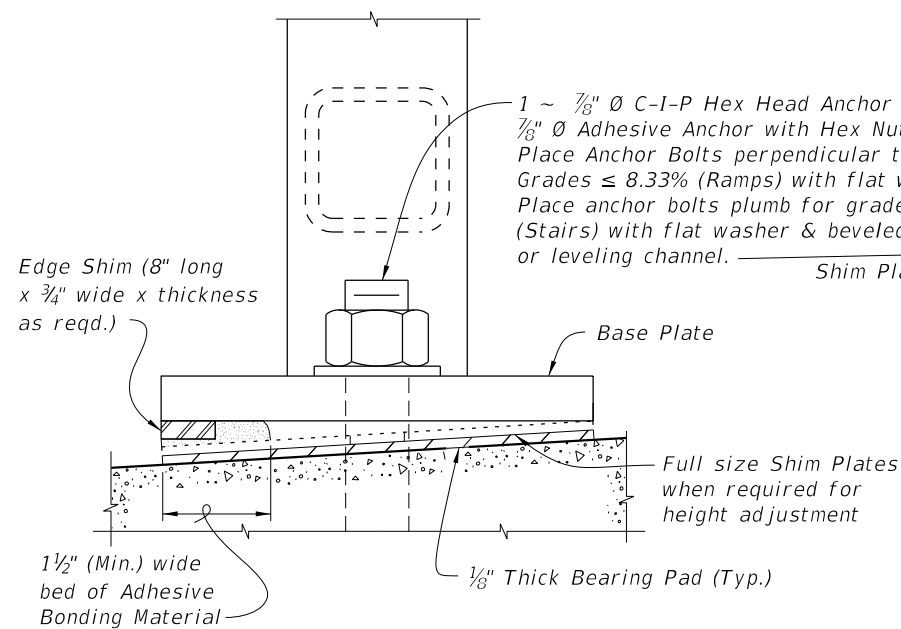
TYPICAL SECTION ON RETAINING WALL (Case II)



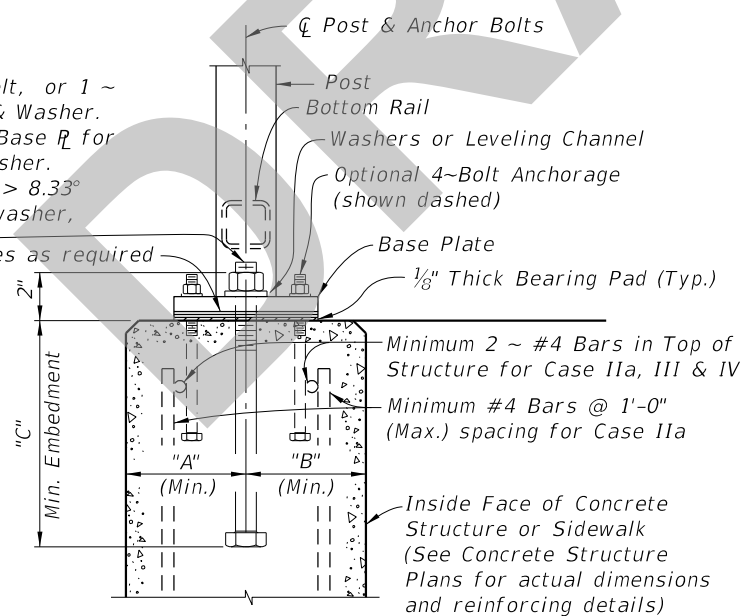
TYPICAL SECTION ON STEPS & STAIRS (Case III)



TYPICAL SECTION FOR 4-BOLT ANCHORAGE (Case IV)



DETAIL "D" (OPTIONAL SHIMMING DETAIL FOR CROSS SLOPE CORRECTION) (Used in lieu of Beveled Shim Plates)



DETAIL "C" (Cast-In-Place Anchor Bolts shown, Adhesive Anchors similar)

ANCHOR BOLT TABLE							
CASE	STRUCTURE TYPE	DIMENSIONS			ANCHOR LENGTH		ANCHOR SIZE
		A Edge Dist.	B Edge Dist.	C Embedment	C-I-P Hex Head Bolt	Adhesive Anchor	
I	Unreinforced Concrete	6"	1'-2"	6"	7½"	8"	7/8" Ø
IIa	Reinforced Concrete	4"	4"	9"	10½"	11"	7/8" Ø
IIb	Gravity Wall Index 400-011	4½"	3½" @ top	9"	10½"	11"	7/8" Ø
III	Step Cheekwall	4½"	4½"	9"	10½"	11"	7/8" Ø
IV	Varies	5"	5"	5"	6½"	7"	7/16" Ø

\*\* When required; measured from top of sidewalk.

SDATES

LAST REVISION 11/01/19	DESCRIPTION:
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FY 2020-21  
STANDARD PLANS

PEDESTRIAN/BICYCLE RAILING (STEEL)

INDEX  
515-052

SHEET  
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